

March 22, 2006

NOTE TO     File

THRU:        Stewart Magruder, Chief   /RA/  
Mixed Oxide Facility Licensing Section, FCSS

FROM:        David H Tiktinsky, Senior Project Manager   /RA/  
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SUBJECT:     SUMMARY OF IN-HOUSE REVIEW OF DUKE COGEMA, STONE AND  
WEBSTER HELD IN CHARLOTTE, NC, ON FEBRUARY 28, 2006 AND  
MARCH 1, 2006

On February 28 and March 1, 2006, staff from the Mixed Oxide Facility Licensing Section (MOFLS) and Region 2 met with representatives of Duke Engineering, COGEMA, Inc., and Stone & Webster (DCS) to informally review the draft license application (LA) and Integrated Safety Assessment (ISA) summary for the mixed oxide fuel fabrication facility (MFFF), that is planned to be constructed on the Savannah River Site. I have attached a list of the topics that were discussed during the in-house review. The following is a summary of discussions that took place during in-office review:

1. License Application

NRC comments on the LA focused on the level of detail and content of the draft document. Staff comments on the draft LA included:

- A. Commitments and Construction Authorization (CA) conditions need to be in the LA.
- B. The design basis for the major aspects of the facility (e.g., glovebox and confinement integrity) needs to be in the LA.
- C. The basis for likelihood definitions should be included in the LA.
- D. The strategy for cases of prevention or mitigation items relied on for safety (IROFS) needs to be discussed.
- E. Consequence methodology commitments need to be included.
- F. Program description process safety information needs to be included.

There was also discussion regarding how much of the LA will be designated as proprietary by DCS.

## 2. ISA Summary

The Nuclear Regulatory Commission (NRC) comments on the ISA summary focused on the level of detail and content of the draft document. Staff comments on the draft ISA summary included:

- A. The ISA summary should include a list of all unmitigated events that could cause the limits in 10 CFR 71.61 to be exceeded.
- B. The methodology used to calculate doses or chemical exposures should be clearly identified.
- C. The accident sequence should be clearly identified as well as which IROFS are applied to each part of the sequence.
- D. The IROFS boundaries should be identified.
- E. IROFS availability and reliability determination should be included.
- E. Initiating event frequencies should be provided.
- F. Process safety information needs to be included.

## 3. Other discussions

- A. DCS mentioned that the control room habitability CA condition would no longer be needed. NRC staff informed DCS that the change will need to be documented in the LA or supporting documents.
- B. NRC informed DCS that it should track the commitments and areas that were identified by the staff in the final Safety Evaluation Report (FSER) for the CA and their impact on the LA or ISA summary. The information should be available either in the LA or in another document that can be reviewed by the staff.
- C. The NRC stated that the LA and ISA summary should only be submitted after it was complete and submittal of portions of the application, including any exemption requests, should be avoided until the application has been submitted to the NRC.
- D. DCS brought up the issue regarding licensing of depleted uranium (DU) material (Part 40 license) and its impact on the ISA. DCS stated that the planned storage of DU would adversely impact the ISA because of the very short distance to the facility's perimeter. This which would greatly impact effects at the owner controlled area boundary for the facility even though no members of the public are present for about five miles due to the presence of the Department of Energy's Savannah River Site. DCS and NRC agreed to pursue this issue in future discussions.

- E. The audit schedule for various quality assurance activities for DCS was discussed. The key audits that NRC may want to participate in were identified during the discussions.

4. Future actions and commitments

- A. DCS will modify one section of the LA and ISA summary to include the items discussed by the NRC. Subsequent to completion of the revised sections, the NRC and DCS will discuss the content of the revised documents to assure that the level of detail is sufficient for the NRC to make an acceptance review determination.
- B. NRC stated that they will identify examples of LA's from other fuel facilities, which are publically available for DCS's use as samples in the development in their submittal.
- C. DCS discussed its rationale for minimizing the amount of information in the LA. DCS believed that the change process in 10 CFR 70.22 did not apply to the LA. Therefore, if it made any changes to the LA, it would need to submit a license amendment to the NRC. The NRC stated that would confirm whether the change process applies to only the ISA summary or whether it also applies to the LA.

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